

AGS/Booster Status

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Time Meeting

Status

- Another eventful week(end) last week.
- We started doing polarization measurement with faster ramp (user2) and new JQ timing. No conclusion can be drawn yet.
- Polarization went south after an AGS access: 62% for 2.2E11. No effect from JQ on/off.
- Polarization eventually came back, but no culprit was found. From injection polarization measurement, we knew it was due to something in the AGS. The possibility is orbit on the ramp, the flattop energy excursion, etc. We did see polarization improvement after smoothing out the orbit harmonics on the ramp. We then changed the MM trim function which showed effect on polarization. But it can not be reproduced: using the “bad” function, polarization was not as low as before.
- Two AGS accesses were done for the AGS eIPM over last one week. The electronics was swapped in the first access but no effect was seen. A loose connector was found in the second one. The eIPM behavior did not change. Tomorrow we will open vacuum to do further diagnose and possible repair. If it turns out the repair takes longer time, the device will be removed from the ring.

AGS Low Polarization Affected Three RHIC Stores

